



Title

METHOD AND RELATED APPARATUS FOR DECODING INFORMATION  
CARRIED BY WOBBLE SIGNALS

*This appn claims benefit of 60/461,578 4-10-03*

5 Background of Invention

1. Field of the Invention

10 The present invention relates in general to a wobble clock generator and a related driving method, and more particularly, to a wobble clock generator and a related driving method having a shared oscillating signal utilized to generate a wobble clock and to act as a reference clock for a protective mechanism capable of avoiding interference generated from a phase-modulated wobble signal.

15 2. Description of the Prior Art

Over the past few years, storage media have rapidly increased in storage capacity due to demand for storing a tremendous amount of information. Of all the various kinds of storage media, optical discs have features of a low-cost, small-size,  
20 low-error-rate, long-storage-time, and high-density storage medium and is the most promising dominant storage medium in the future. Generally speaking, optical disc drives are used to read information stored on an optical disc. Examples of optical disc drives are known as compact disc drives (CD-ROM drives) and digital versatile disc drives (DVD-ROM drives) in the prior art. Some optical disc drives have the  
25 additional capability of being able to write data onto an optical disc, i.e., CD-R/RW, DVD+R/RW and DVD-R/RW drivers. Optical disc drives are used in music and video playback and are implemented in recording devices and other electronic devices.

In order to effectively manage the information stored on a digital versatile disc,  
30 the data storage region of the digital versatile disc is divided into many frames. Data can be stored in these frames according to a memory format. Therefore, while in a writing process for a rewritable digital versatile disc, the DVD drive has to identify